DETAILED ESTIMATE

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WARD NO.08

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1)IMPROVEMENTS TO ROADS AND DRAINS IN KODIGEHALLI VILLAGE GRAMATANA WARD NO.08 (KODIGEHALLI), KODIGEHALLI SUB DIVISION

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BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 03

(PACKAGE CONSISTS OF 21 WORKS IN WARD NO 08 AND WARD NO 09)

NAME OF WORK: IMPROVEMENTS TO ROADS AND DRAINS IN KODIGEHALLI VILLAGE GRAMATANA WARD NO.08 KODIGEHALLI

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. (P.No. 136, I.No. 18.18 of CSR 2015-16) (P.No.137, I.No.18.27 of PW,P&IWTD SR 2015-16)								
	Concrete	Cum							
	(kodigehallimn road to anjaneya temple)		1	165.00	5.70	0.125	117.56		
	Cross Road In Ram Mandir Road		1	45.00	4.45	0.15	30.04		
	Chandrappa Hotel Bck Side Rd		1	20.00	2.00	0.15	6.00		
	Kempegowda road		1	185.00	4.75	0.15	131.81		
	Basic rate							374	
	Area weightage 6%							22.44	
	Loading & Unloading charges							116.75	
							285.41	**513.19**	**146470.84**
2	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Chandrappa Hotel Bck Side Rd		1	60.00	0.50	0.40	12.00		
	LHS Rd		1	30.00	0.50	0.40	6.00		
	RHS Rd		1	30.00	0.50	0.40	6.00		
	Muneshwara Devastana to end		2	115.00	0.50	0.40	46.00		
	Culvert		1	6.00	1.60	1.20	11.52		
			2	5.00	1.60	1.20	19.20		
	Basic rate							82.00	
	Area weightage 6%							4.92	
							100.72	**86.92**	**8754.58**
3	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.2+I.No.10	Cum					422.14		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.50 x 1.28 x 15)/-		48						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68						
	Total rate per Cum		116						
	Basic rate							116.00	
	Area weightage 6%							6.96	
							422.1355	**122.96**	**51905.78**

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4	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	Desilt	Sqm							
	LHS Rd		1	30	1.80	–	54.00		
	RHS Rd		1	30	1.80	–	54.00		
	Muneshwara Devastana to end		2	115	1.80	–	414.00		
							522.00		
	Consider 20% for Damaged and Missing Slabs						-104.40		
	Basic rate							76.00	
	Area weightage 6%							4.56	
							939.60	**80.56**	**75694.18**
5	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
	For BS Slab Drain	Sqm							
	Consider 20% for Damaged and Missing Slabs						104.40		
	Basic rate							628.00	
	Area weightage 6%							37.68	
							104.40	**665.68**	**69496.99**
6	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Culvert		1	6.00	1.60	0.15	1.44		
			2	5.00	1.60	0.15	2.40		
	(kodigehallimn road to anjaneya ter		1	165.00	5.70	0.15	141.08		
	Cross Road In Ram Mandir Road		1	45.00	4.45	0.15	30.04		
	UGD Cut for Muneshwara Devastat		1	115.00	0.80	0.15	13.80		
	Muneshwara Devastana to Govt Sc		1	20.00	1.00	0.15	3.00		
	Cross Road in Muneshwara Temple to Govt School		1	25.00	3.00	0.15	11.25		
	Kempegowda road		1	185.00	4.75	0.15	131.81		
	Basic rate							5046.00	
	Area weightage 6%							302.76	
							334.82	**5348.76**	**1790845.08**
7	Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17)								
	Bottom Raft	Cum							
	Culvert		1.00	6.00	1.40	0.25	2.10		
			2.00	5.00	1.40	0.25	3.50		
	Walls								
	Culvert		2.00	6.00	0.25	0.80	2.40		
			4.00	5.00	0.25	0.80	4.00		
	Road cum slab								
	Chandrappa Hotel Bck Side Rd		1	20.00	2.00	0.15	6.00		
	Basic rate							10408.00	
	Area weightage 6%							624.48	
							18.00	**11032.48**	**198584.64**

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8	KSRB - 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.3 of PW, P&IWTD SR 2016-17)								
	Consider 80Kgs/cum for Culvert	Tonne		18.00	0.080	--	1.44		
	Chandrappa Hotel Bck Side Rd			6.00	0.050	--	0.30		
	Basic rate							60607.00	
	Area weightage 6%							3636.42	
							1.74	**64243.42**	**111783.55**
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Culvert								
		Sqm	1.00	6.00	1.40	--	8.40		
			2.00	5.00	1.40	--	14.00		
							22.40	**4951.00**	**110902.40**
10	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	(kodigehallimn road to anjaneya temple)		1.00	165.00	5.70	0.15	138.25		
	Cross Road In Ram Mandir Road		1.00	45.00	4.45	0.15	29.44		
	UGD Cut for Muneshwara Devastana to end		1	115.00	0.80	0.15	13.52		
	Cross Road in Muneshwara Temple to Govt School		1.00	25.00	3.00	0.15	11.03		
	Kempegowda road		1.00	185.00	4.75	0.15	129.18		
	Basic rate							46.00	
	Area weightage 6%							2.76	
							321.42	**48.76**	**15672.22**
11	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17)								
	Road Portion	Cum							
	(kodigehallimn road to anjaneya temple)		1.00	165.00	5.70	0.10	94.05		
	Cross Road In Ram Mandir Road		1.00	45.00	4.45	0.10	20.03		
	Muneshwara Devastana to end		1.00	115.00	4.00	0.10	46.00		
	Muneshwara Devastana to Govt School road		1.00	170.00	4.00	0.10	68.00		

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	Cross Road in Muneshwara Temple to Govt School		1.00	25.00	3.00	0.10	7.50		
	Kempegowda road		1.00	185.00	4.75	0.10	87.88		
	Basic rate							5866.00	
	Area weightage 6%							351.96	
							323.45	**6217.96**	**2011199.16**
12	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)								
	Road Portion	Sqm							
	(kodigehallimn road to anjaneya temple)		1.00	165.00	5.70	–	940.50		
	Cross Road In Ram Mandir Road		1.00	45.00	4.45	–	200.25		
	Muneshwara Devastana to end		1.00	115.00	4.00	–	460.00		
	Muneshwara Devastana to Govt School road		1.00	170.00	4.00	–	680.00		
	Cross Road in Muneshwara Temple to Govt School		1.00	25.00	3.00	–	75.00		
	Kempegowda road		1.00	185.00	4.75	–	878.75		
	Basic rate							90.00	
	Area weightage 6%							5.40	
							3234.50	**95.40**	**308571.30**
								Sub Total	**4899880.723**
								Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)	100000
								Miscellaneous and rounding off	119.28
								Total	**5000000.00**
									RUPEES FIFTY LAKHS ONLY

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.

2 The provisions made in the estimate are necessary and essential.

3 The workspot was inspected and work is found to be necessary.

4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

JWOC

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Byatarayanapura Division
Yalahanka Zone, B.B.M.P.
Bangalore-560092

Technical Sanction
Accorded For RS 50:00 Lakhs only
Head of A/C P3158
CER NO 33 Dt: 29/01/18

JA

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2) IMPROVEMENTS AND DEVELOPMENT OF PARK AT KODIGEHALLI WARD NO.08 (KODIGEHALLI), KODIGEHALLI SUB DIVISION

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BRUHAT BANGALORE MAHANAGARA PALIKE
PREPARATION OF DPR FOR PACKAGE NO. 03
(PACKAGE CONSISTS OF 21 WORKS IN WARD NO 08 AND WARD NO 09)
IMPROVEMENTS AND DEVELOPMENT OF PARK AT KODIGEHALLI WARD NO.08

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Park								
	Tata nagar 5th c/s beside SWD		1.00	46.00	33.00	0.50	759.00		
	Tata nagar 5th c/s beside SWD		4.00	46.00	0.95	0.94	164.31		
	8th main road side park		2.00	89.00	0.95	0.94	158.95		
			1.00	5.00	0.95	0.94	4.47		
			1.00	7.50	0.95	0.94	6.70		
	9th cross near indira canteen		1.00	70.00	0.95	0.94	62.51		
			2.00	17.00	0.95	0.94	30.36		
	Basic rate							82.00	
	Area weightage 6%							4.92	
							1186.30	**86.92**	**103113.24**
2	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1	Cum					1186.30		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.50 x 1.28 x 15)/-		48						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68						
	Total rate per Cum		116						
	Basic rate							116.00	
	Area weightage 6%							6.96	
							1186.30	**122.96**	**145867.51**
3	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Park								
	Tata nagar 5th c/s beside SWD		4	46.00	0.95	0.15	26.22		
	8th main road side park		2	89.00	0.95	0.15	25.37		
			1	5.00	0.95	0.15	0.71		
			1	7.50	0.95	0.15	1.07		
	9th cross near indira canteen		1	70.00	0.95	0.15	9.98		
			2	17.00	0.95	0.15	4.85		
	Basic rate							5046.00	
	Area weightage 6%							302.76	
							68.19	**5348.76**	**364731.94**
4	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13.(P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)								
		Cum							
	Park								
	Tata nagar 5th c/s beside SWD		4	46.00	0.75	0.75	103.50		
	8th main road side park		2	89.00	0.75	0.75	100.13		
			1	5.00	0.75	0.75	2.81		
			1	7.50	0.75	0.75	4.22		
	9th cross near indira canteen		1	70.00	0.75	0.75	39.38		
			2	17.00	0.75	0.75	19.13		
	Basic rate							**4187.00**	

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	Area weightage 6%							251.22	
							269.16	**4438.22**	**1194574.65**
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13(P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)								
		Cum							
	Park								
	Tata nagar 5th c/s beside SWD		4	46.00	0.45	0.60	49.68		
	8th main road side park		2	89.00	0.45	0.60	48.06		
			1	5.00	0.45	0.60	1.35		
			1	7.50	0.45	0.60	2.03		
	9th cross near indira canteen		1	70.00	0.45	0.60	18.90		
	9th cross near indira canteen		1	17.00	0.45	0.60	4.59		
	For pole insertion		176.00	0.45	0.45	-0.45	-16.04		
	Basic rate							5005.00	
	Area weightage 6%							300.30	
							108.57	**5305.30**	**575980.51**
6	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)								
		Sqm							
	Park								
	Tata nagar 5th c/s beside SWD		4.00	46.00		0.90	165.60		
	8th main road side park		2.00	89.00		0.90	160.20		
			1.00	5.00		0.90	4.50		
			1.00	7.50		0.90	6.75		
	9th cross near indira canteen		1.00	70.00		0.90	63.00		
			2.00	17.00		0.90	30.60		
	Basic rate							97.00	
	Area weightage 6%							5.82	
							430.65	**102.82**	**44279.43**
7	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.530 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)								
	Coping	Cum							
	Park								
	Tata nagar 5th c/s beside SWD		4.00	46.00	0.45	0.10	8.28		
	8th main road side park		2.00	89.00	0.45	0.10	8.01		
			1.00	5.00	0.45	0.10	0.23		
			1.00	7.50	0.45	0.10	0.34		
	9th cross near indira canteen		1.00	70.00	0.45	0.10	3.15		
			2.00	17.00	0.45	0.10	1.53		
	For pole insertion		176.00	0.45	0.45	0.45	16.04		
	Basic rate							5441.00	
	Area weightage 6%							326.46	
							37.57	**5767.46**	**216683.47**
8	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Park								
	Tata nagar 5th c/s beside SWD		4	42.00	2.90	0.23	112.06		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
							112.06	**1768.08**	**198123.97**

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9	KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. (P.No. 101, I.No. 14.6 of CSR 2015-16)								
	Park	sqm.							
	Tata nagar 5th c/s beside SWD		4	42.00	2.50		420.00		
	Basic rate							912.00	
	Area weightage 6%							54.72	
							420.00	**966.72**	**406022.40**
10	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)								
	for walkway	No.							
	New Kerbs								
	Park		8	42.00	--	/0.45	747.00		
	Basic rate							313.00	
	Area weightage 6%							18.78	
							747.00	**331.78**	**247839.66**
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.182, I.No. 24.1 of PW,P&IWTD SR 2016-17)								
	for walkway	Sqm							
	Park		8	42.00	--	0.35	117.60		
	Basic rate							60.00	
	Area weightage 6%							3.60	
							117.60	**63.60**	**7479.36**
12	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No.262 I.No.37.2 of PW,P&IWTD SR of 2016-17)								
	Chain Link Fancing	m							
	Tata nagar 5th c/s beside SWD	4.00	17	2.50	--	--	170.00		
	8th main road side park	2.00	31	2.50	--	--	155.00		
		1.00	3	2.50	--	--	7.50		
		1.00	4	2.50	--	--	10.00		
	9th cross near indira canteen	1.00	25	2.50	--	--	62.50		
		2.00	7	2.50	--	--	35.00		
	Basic rate							819.00	
	Area weightage 6%							49.14	
							440.00	**868.14**	**381981.60**
13	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No.262 of I.No.37.3 in PW,P&IWTD S.R 2016-17)								
	Chain Link Fancing	Sqm							
	Tata nagar 5th c/s beside SWD		4.00	46.00	--	2.00	368.00		
	8th main road side park		2.00	89.00	--	2.00	356.00		
			1.00	5.00	--	2.00	10.00		
			1.00	7.50	--	2.00	15.00		
	9th cross near indira canteen		1.00	70.00	--	2.00	140.00		
			2.00	17.00	--	2.00	68.00		
	Basic rate							659.00	
	Area weightage 6%							39.54	
							957.00	**698.54**	**668502.78**

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14	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P.No.262 I.No.37.4 of PW,P&IWTD SR of 2016-17)								
	Chain Link Fancing	m							
	Tata nagar 5th c/s beside SWD		2	46.00	--	--	92.00		
	8th main road side park		2	89.00	--	--	178.00		
			2	5.00	--	--	10.00		
			2	7.50	--	--	15.00		
	9th cross near indira canteen		2	70.00	--	--	140.00		
			2	17.00	--	--	34.00		
	Basic rate							324.00	
	Area weightage 6%							19.44	
							469.00	**343.44**	**161073.36**
15	Fabricating, providing and erecting in poiston of Hot dip galvanised M S Ornamental security Grill using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings,.(P.No.42, I.No.7.34of PW,P&IWTD S.R 2016-17)								
	Park	Kg							
			At 35kg/sqm						
	8th main road side park		1	3.00	2.50		7.50		
	Tata nagar 5th c/s beside SWD		1	5.00	2.50		12.50		
	Basic rate							8627	
	Area weightage 6%							517.59	
							20.00	**9144.14**	**182882.80**
								Sub Total	**4899136.68**
								Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)	100000
								Miscellaneous and rounding off	863.32
								Total	**5000000.00**
								RUPEES FIFTY LAKHS ONLY	

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
4 The provisions made in the estimate are necessary and essential.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Byatarayanapura Division
Yalahanka Zone, B.B.M.P.
Bangalore-560092

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3)IMPROVEMENTS TO ROADS AND DRAINS AT DEFENSE COLONY AND CQAL LAYOUT AT KODIGEHALLI WARD NO.08 (KODIGEHALLI), KODIGEHALLI SUB DIVISION

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BRUHAT BANGALORE MAHANAGARA PALIKE
PREPARATION OF DPR FOR PACKAGE NO. 03
(PACKAGE CONSISTS OF 21 WORKS IN WARD NO 08 AND WARD NO 09)
IMPROVEMENTS TO ROADS AND DRAINS AT DEFENSE COLONY AND CQAL LAYOUT AT KODIGEHALLI WARD NO.08

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Defence Layout								
	1st Cross Road		2	110.00	0.50	0.45	49.50		
	2nd Cross Road		2	135.00	0.50	0.45	60.75		
	3rd Cross Road		2	160.00	0.50	0.45	72.00		
	5th main road		2	125.00	0.50	0.45	56.25		
	CQAL Layout								
	7th Main		2	175.00	0.50	0.40	70.00		
	3rd Main Rd		2	130.00	0.50	0.40	52.00		
	8th Cross Rd		2	50.00	0.50	0.40	20.00		
	7th Cross		2	140.00	0.50	0.40	56.00		
	6th Cross		2	115.00	0.50	0.40	46.00		
	5th Cross Road		2	145.00	0.50	0.40	58.00		
	CQAL Layout								
	20th B Cross Rd (8th Mn to Kodigehalli Mn Rd)		2	480.00	0.50	0.45	216.00		
	20thC (7th main to 2nd main road-hello kids)		2	195.00	0.50	0.45	87.75		
	2nd main (20th C cross to 21st C cross		2	205.00	0.50	0.45	92.25		
	20th E(2nd main to1st main road)		2	121.00	0.50	0.45	54.45		
	1st A in 20th A main CQAL lyt		2	35.00	0.50	0.45	15.75		
	1st B in 20th A main CQAL lyt		2	48.00	0.50	0.45	21.60		
	1st main in(20th e cross tokodigehalli main rd)		2	150.00	0.50	0.45	67.50		
	Cross road		2	80	0.50	0.45	36.00		
	Basic rate							82.00	
	Area weightage 6%							4.92	
							1131.80	**86.92**	**98376.06**
2	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1+ I.No.5	Cum					1372.71		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.50 x 1.28 x 15)/-		48						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68						
	Total rate per Cum		116						
	Basic rate							116.00	
	Area weightage 6%							6.96	
							1372.7135	**122.96**	**168788.85**

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3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	Desilt	Sqm							
	1st Cross Road		2	110.00	1.80		396.00		
	2nd Cross Road		2	135.00	1.80		486.00		
	3rd Cross Road		2	160.00	1.80		576.00		
	5th main road		2	125.00	1.80		450.00		
	CQAL Layout								
	7th Main		2	175.00	1.80		630.00		
	3rd Main Rd		2	130.00	1.80		468.00		
	8th Cross Rd		2	50.00	1.80		180.00		
	7th Cross		2	140.00	1.80		504.00		
	6th Cross		2	115.00	1.80		414.00		
	5th Cross Road		2	145.00	1.80		522.00		
	20th B Cross Rd (8th Mn to Kodigehalli Mn Rd)		2	480.00	1.80		1728.00		
	20thC (7th main to 2nd main road-hello kids)		2	195.00	1.80		702.00		
	2nd main (20th C cross to 21st C cross		2	205.00	1.80		738.00		
	20th E(2nd main to1st main road)		2	121.00	1.80		435.60		
	1st A in 20th A main CQAL lyt		2	35.00	1.80		126.00		
	1st B in 20th A main CQAL lyt		2	48.00	1.80		172.80		
	1st main in(20th e cross tokodigehalli main rd)		2	150.00	1.80		540.00		
	Cross road		2	80.00	1.80		288.00		
							9356.40		
	Consider 20% for Damaged and Missing Slabs						-1871.28		
	Basic rate							76.00	
	Area weightage 6%							4.56	
							7485.12	**80.56**	**603001.27**
4	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
	For BS Slab Drain	Sqm							
	Consider 20% for Damaged and Missing Slabs						1871.28		
	Basic rate							628.00	
	Area weightage 6%							37.68	
							1871.28	**665.68**	**1245673.67**
5	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	Bad Reaches								
			25	2.00	2.50	0.23	28.75		
			28	2.00	2.00	0.23	25.76		
			35	1.50	2.50	0.23	30.19		
			26	1.00	1.20	0.23	7.18		
	Defence Layout								
	5th main road		2	125.00	1.20	0.23	69.00		
	CQAL Layout								
	5th Cross Road		2	145.00	1.20	0.23	80.04		
	Basic rate							46.00	

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	Area weightage 6%							2.76	
							240.91	48.76	11746.94
6	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Bad Reaches	Cum							
			25	2.00	2.50	0.23	28.75		
			28	2.00	2.00	0.23	25.76		
			35	1.50	2.50	0.23	30.19		
			26	1.00	1.20	0.23	7.18		
	Defence Layout								
			2	125.00	1.20	0.23	69.00		
	CQAL Layout								
			2	145.00	1.20	0.23	80.04		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
							240.91	1768.08	425954.34
7	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)								
	Bad Reaches	Cum							
			25	2.00	2.50	--	125.00		
			28	2.00	2.00	--	112.00		
			35	1.50	2.50	--	131.25		
			26	1.00	1.20	--	31.20		
	Defence Layout								
			2	125.00	1.20	--	300.00		
	CQAL Layout								
			2	145.00	1.20	--	348.00		
	Basic rate							26.00	
	Area weightage 6%							1.56	
							1047.45	27.56	28867.72
8	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec. Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)								
	Road Portion	Sqm							
	Defence layout								
	1st Cross Road		1	110	5.50	--	605.00		
	2nd Cross Road		1	135	5.20	--	702.00		
	3rd Cross Road		1	160	5.30	--	848.00		
	5th main road		1	125	5.30	--	662.50		
	CQAL layout								
	7th Main		1	175	9.50	--	1662.50		
	3rd Main Rd		1	130	6.30	--	819.00		
	8th Cross Rd		1	50	4.50	--	225.00		
	7th Cross		1	140	5.30	--	742.00		
	6th Cross		1	115	6.20	--	713.00		
	5th Cross Road		1	145	4.30	--	623.50		
	20th B Cross Rd (8th Mn to Kodigehalli Mn Rd)		1	480	6.80	--	3264.00		
	20thC (7th main to 2nd main road-hello kids)		1	195	6.00	--	1170.00		
	2nd main (20th C cross to 21st C cross		1	205	7.50	--	1537.50		
	20th E(2nd main to1st main road)		1	121	7.00	--	847.00		

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	1st A in 20th A main CQAL lyt		1	35	5.60	--	196.00		
	1st B in 20th A main CQAL lyt		1	48	5.40	--	259.20		
	1st main in(20th e cross tokodigehalli main rd)		1	150	5.70	--	855.00		
	Cross road		1	80	5.50	--	440.00		
							16171.20		
	Deduct prime coat						-399.45		
	Basic rate							3.00	
	Area weightage 6%							0.18	
							15771.75	**3.18**	**50154.17**
9	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)								
	Road Portion	Sqm							
	For laying DBM								
	20th B Cross Rd (8th Mn to Kodigehalli Mn Rd)		1	480.00	6.80	--	3264.00		
	For Laying BC								
	Defence layout								
	1st Cross Road		1	110	5.50	--	605.00		
	2nd Cross Road		1	135	5.20	--	702.00		
	3rd Cross Road		1	160	5.30	--	848.00		
	5th main road		1	125	5.30	--	662.50		
	7th Main		1	175	9.50	--	1662.50		
	3rd Main Rd		1	130	6.30	--	819.00		
	8th Cross Rd		1	50	4.50	--	225.00		
	7th Cross		1	140	5.30	--	742.00		
	6th Cross		1	115	6.20	--	713.00		
	5th Cross Road		1	145	4.30	--	623.50		
	CQAL layout								
	20th B Cross Rd (8th Mn to Kodigehalli Mn Rd)		1	480	6.80	--	3264.00		
	20thC (7th main to 2nd main road-hello kids)		1	195	6.00	--	1170.00		
	2nd main (20th C cross to 21st C cross		1	205	7.50	--	1537.50		
	20th E(2nd main to1st main road)		1	121	7.00	--	847.00		
	1st A in 20th A main CQAL lyt		1	35	5.60	--	196.00		
	1st B in 20th A main CQAL lyt		1	48	5.40	--	259.20		
	1st main in(20th e cross tokodigehalli main rd)		1	150	5.70	--	855.00		
	Cross road		1	80	5.50	--	440.00		
	Basic rate							12.00	
	Area weightage 6%							0.72	
							19435.20	**12.72**	**247215.74**
10	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.165 of I.No.21.17.6 in PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	20th B Cross Rd (8th Mn to Kodigehalli Mn Rd)		1.00	480.00	6.80	0.05	163.20		
	Defence Layout								
			2.00	125.00	1.20	0.05	15.00		

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	CQAL Layout								
	Basic rate		2.00	145.00	1.20	0.05	17.40		
	Area weightage 6%							6717.00	
								403.02	
							195.60	**7120.02**	**1392675.91**
11	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	Defence layout								
	1st Cross Road		1	110.00	5.50	0.04	24.20		
	2nd Cross Road		1	135.00	5.20	0.04	28.08		
	3rd Cross Road		1	160.00	5.30	0.04	33.92		
	5th main road		1	125.00	5.30	0.04	26.50		
	CQAL layout								
	7th Main		1	175.00	9.50	0.04	66.50		
	3rd Main Rd		1	130.00	6.30	0.04	32.76		
	8th Cross Rd		1	50.00	4.50	0.04	9.00		
	7th Cross		1	140.00	5.30	0.04	29.68		
	6th Cross		1	115.00	6.20	0.04	28.52		
	5th Cross Road		1	145.00	4.30	0.04	24.94		
	20th B Cross Rd (8th Mn to Kodigehalli Mn Rd)		1	480.00	6.80	0.04	130.56		
	20thC (7th main to 2nd main road-hello kids)		1	195.00	6.00	0.04	46.80		
	2nd main (20th C cross to 21st C cross		1	205.00	7.50	0.04	61.50		
	20th E(2nd main to1st main road)		1	121.00	7.00	0.04	33.88		
	1st A in 20th A main CQAL lyt		1	35.00	5.60	0.04	7.84		
	1st B in 20th A main CQAL lyt		1	48.00	5.40	0.04	10.37		
	1st main in(20th e cross tokodigehalli main rd)		1	150.00	5.70	0.04	34.20		
	Cross road		1	80.00	5.50	0.04	17.60		
	Basic rate								
	Area weightage 6%							7659.00	
								459.54	
							646.85	**8118.54**	**5251461.36**
12	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)								

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	Edge line	Sqm	2	2519.00	0.10	–	503.80		
	Basic rate							512.00	
	Area weightage 6%							30.72	
							503.80	542.72	273422.34
								Sub Total	9797338.37
								Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)	200000
								Miscellaneous and rounding off	2661.63
								Total	10000000.00
								RUPEES ONE CRORE ONLY	

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Byatarayanapura Division
Yalahanka Zone, B.B.M.P.
Bangalore-560092

Technical Sanction
Accorded For RS.100:00 lacs only
Head of A/c P3158.....
CER NO :..35..... Dt:..29/01/18

JTA

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